Table B-1. Survey of Industrial Research and Development---number of companies in the target population and selected for the sample, by industry and by size of company: 1999

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			1999 survey			Companies with reported or imputed		
						'R&D expenditures for 1999 3,4		Companies that
Industry and size of company	NAICS codes		Companies					reported no
		Companies	selected for			Greater than or		R&D
		in target	1,999	Non-		equal to \$5	Less than \$5	expenditures
		population	sample	certainties '	Certainties ⁴	million	million	for 1999 [→]
Distribution by industry:								
All industries	. 21-23, 31-33, 42, 44-81	1,854,218	24,431	21,791	2,640	1,808	1,863	16,612
Manufacturing	. 31-33	181,085	4,933	3,573	1,360	973	1,009	2,225
Food	. 311	2,500	166	106	60	35	55	56
Beverage and tobacco products	312	267	13	8	5	3	3	6
Textiles, apparel, and leather	. 313-16	3,428	226	156	70	13	66	104
Wood products	321	1,702	296	265	31	3	35	217
Paper, printing and support activities	. 322, 323	3,552			41	31	22	72
Petroleum and coal products		152			12	8	4	7
Chemicals	325	1,388	300	108	192	144	84	36
Basic chemicals	3251	227	155	65	90	46	55	29
Resin, synthetic rubber, fibers, and filament		107	16		14	14	0	0
Pharmaceuticals and medicines	3254	300			47	45	4	1
Other chemicals	325 (minus 3251-52, 3254)	754	76	35	41	39	25	6
Plastics and rubber products			337		102	52	109	
Nonmetallic mineral products		1,268			18	11	15	
Primary metals		1,109				22	32	38
Fabricated metal products		5,853				36		
Machinery		,				114		
Computer and electronic products	334	2,749	427	125	302	300	53	31
Computers and peripheral equipment		249				42	9	3
Communications equipment		413				59	7	4
Semiconductor and other electronic components	3344	1,193	137	44	93	95	15	15
Navigational, measuring, electromedical,								_
and control instruments		736				93	13	5
Other computer and electronic products	.₿34 (minus 3341-42, 3344-45)	158	28	14	14	11	9	4

See explanatory information and SOURCE at end of table.

Table B-1. Survey of Industrial Research and Development---number of companies in the target population and selected for the sample, by industry and by size of company: 1999

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			1999 survey			Companies with reported or imputed 'R&D expenditures for 1999 3,4		
Industry and size of company	NAICS codes	Companies in target population	Companies selected for 1,999 sample	Non- certainties '	Certainties ⁴	Greater than or equal to \$5 million	Less than \$5 million	reported no R&D expenditures for 1999 *
Distribution by industry:								
Electrical equipment, appliances, and components Transportation equipment		1,049 2,054	161 145	102 64		53 77	50 17	31 35
Motor vehicles, trailers, and parts Aerospace products and parts Other transportation equipment	. 3364	1,400 269 385	64 29 52	29 5 30	24	37 24 16	4 0 13	16 4 15
Furniture and related products		1,570 1,969	93 317	58 222	35 95	10 59	_	43 112
Medical equipment and supplies Other miscellaneous manufacturing		589 1,380	118 199		48 47	43 16	34 67	22 90
Other manufacturing ⁵	. 31-33 (minus 311-16, 321-27, 331-37, 339)		-	-				
Small manufacturing companies ⁶	. Fewer than 50 employees	144,036	1,443	1,441	2	2	93	1,090
Nonmanufacturing	. 21-23, 42, 44-81	1,673,133	19,498	18,218	1,280	835	854	14,387
Mining, extraction, and support activities Utilities	. 22	3,241 571	85 66	70 34	15 32	13 9	32	52 18
ConstructionTrade	-	73,991 146,369	1,493 3,062			98	13 58	1,263 2,474
Transportation and warehousingInformation	. 48, 49		456 674	439 470	17 204	3 189	12	364
Publishing	. 511	5,321	410	268	142	155	83	103
Newspaper, periodical, book, and databaseSoftware		3,324 1,997	81 329	73 195	8 134	6 149	4 79	59 44
Broadcasting and telecommunications	. 513	3,524	132	99	33	15	4	84

See explanatory information and SOURCE at end of table.

Table B-1. Survey of Industrial Research and Development---number of companies in the target population and selected for the sample, by industry and by size of company: 1999

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			1999 survey			Companies with reported or imputed 'R&D expenditures for 1999 3,4		Companies that
Industry and size of company	NAICS codes	Companies in target population	Companies selected for 1,999 sample	Non- certainties '	Certainties ⁴	Greater than or equal to \$5 million	Less than \$5 million	reported no R&D expenditures for 1999
Distribution by industry:								
Radio and television broadcasting Telecommunications	5131 5133	1,723 1,465		35 30		2 11	1	26 21
Other broadcasting and telecommunications			53	34	19	2	2	37
Other information	51 (minus 511, 513)	3,184	132	103	29	19	13	80
Finance, insurance, and real estate			863	810		33	15	
Professional, scientific, and technical services	54	49,843	3,464	2,734	730	456	510	1,900
Architectural, engineering, and related services				719	_	68	96	634
Computer systems design and related services Scientific R&D services				1,026 286		114 262	279 113	
Other professional, scientific, and technical services.				703		12	22	612
Management of companies and enterprises		-	106	75		3	6	72
Health care services Other nonmanufacturing		43,379 180,093		885 3,811	66	2 18	11 50	746 2,979
Small nonmanufacturing companies ⁶	Fewer than 15 employees	1,103,645	4,458	4,451	7	5	39	3,560

See explanatory information and SOURCE at end of table.

Table B-1. Survey of Industrial Research and Development---number of companies in the target population and selected for the sample, by industry and by size of company: 1999

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			1999 survey		Companies with reported or imputed 'R&D expenditures for 1999 3,4		Companies that
Industry and size of company	Companies in target population	Companies selected for 1,999 sample	Non- certainties '	Certainties ⁴	Greater than or equal to \$5 million	Less than \$5 million	reported no R&D expenditures for 1999 ⁻
Distribution by size of company: [Number of employees]							
Total	 1,854,218	24,431	21,791	2,640	1,808	1,863	16,612
5 to 24	 1,462,627	10,725	10,681	44	9	249	NA
25 to 49	 212,837	4,490	4,437	53	45	244	NA
50 to 99	99,234	2,882	2,759	123	134	267	NA
100 to 249	52,087	2,341	2,054	287	243	328	NA
250 to 499	14,334	1,022	705	317	210	206	NA
500 to 999	 6,422	847	450	397	226	218	NA
1,000 to 4,999	5,140	1,287	487	800	487	257	NA
5,000 to 9,999	757	362	94	268	212	44	NA
10,000 to 24,999	481	263	55	208	139	40	NA
25,000 or more	299	212	69	143	103	9	NA

¹ Noncertainties are companies whose probability of selection is less than one.

KEY: -- = Indicates data not collected.

NA = Not available.

NOTE: Starting with the 1999 survey, estimates are based on the North American Industry Classification System (NAICS). In prior years, estimates were based on the Standard Industrial Classification (SIC) system.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 1999

² Certainties are companies whose probability of selection is one. This includes companies whose 1998 R&D expenditures were equal to or greater than \$5 million.

³ Includes RD-1 companies for which total R&D expenditure data were imputed.

⁴ Does not include companies that did not respond to the survey or that did not indicate any information about R&D performance on a returned questionnaire. Also excludes companies that reported they were out-of-scope, out-of-business, or had merged with another company.

⁵ "Other manufacturing" is intentionally left blank to allow for possible future North American Industry Classification System (NAICS) expansion.

The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more detailed information, please see "frame creation" and "sample selection" in Section B.